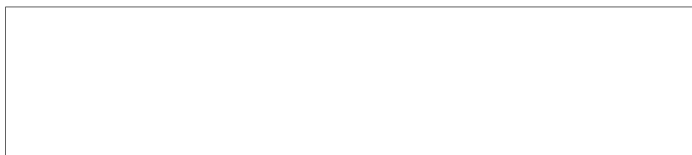


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ENGINEERING PROPOSAL

FOR

PORTABLE INFRARED COMMUNICATOR
(MODEL B)

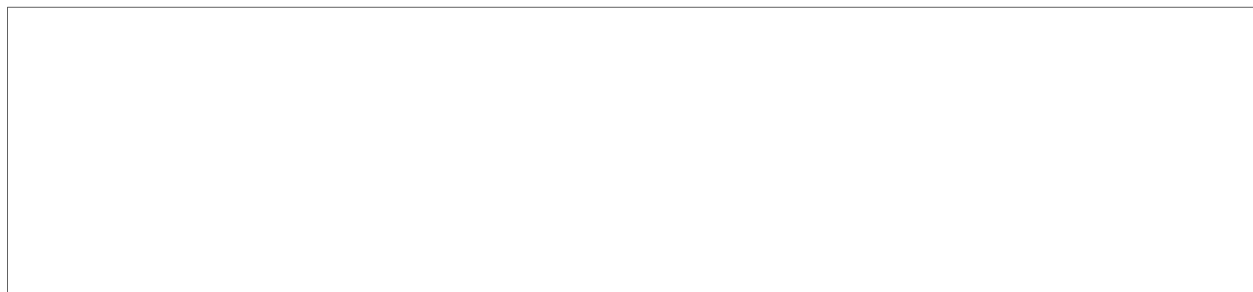
PHASE IIIA

FINALIZATION

and

PHASE IIIB

TRAINING OF FIELD MAINTENANCE PERSONNEL



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COPY 2 OF 5 COPIES

20 SEPTEMBER 1955

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ENGINEERING PROPOSAL (MODEL B PHASES IIIA & IIIB)

A. FINALIZATION

1. General

It is proposed that the paperwork associated with the Model B, made up of specifications, drawings, and the instruction and maintenance manual be put into final form as defined below.

2. Specifications

It is proposed that formal specifications be written to define the equipment and its performance based on the various past requirements and on the experience and judgment gained in phases I and II of this work.

3. Drawings

It is proposed that a complete set of formal drawings including all necessary assemblies be prepared as brown line vellum reproducibles with numbers and labels to customer format.

4. Instructions

It is proposed that a final comprehensive instruction and maintenance manual be prepared to customer requirements.

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CONFIDENTIAL**B. TRAINING OF FIELD MAINTENANCE PERSONNEL**

It is proposed that three men with a background of some electronic servicing be sent to us for a period of two weeks, to be trained by us in the servicing and maintenance of the Model B in the field. In this training period, these men should become sufficiently familiar with the principles of operation of this equipment, its alignment procedures and its internal structure to allow them to make minor repairs, replace packaged parts in the field and to decide when necessary that the repairs required are of such a serious nature that the unit should be sent back to us for servicing.

C. MANPOWER AND MATERIAL

Following is a summary in man months and dollars of purchased materials and services covering the work contemplated.

ITEM DESCRIPTION	MAN MONTHS				TOTAL	PURCHASED MATERIALS & SERVICES
	ELECT. ENG.	MECH. ENG.	DRAFTING	TECH. PUB.		
1 Specifications	2.3	--	--	.5	2.8	
2 Drawings	.3	3.2	14.7	--	18.2	
3 Instruction Books	4.5	--	--	4.5	9.0	
4 Train 3 men 2 weeks	.5	.1	--	--	.6	
5 Monthly Reports (8)	.4	--	--	.4	.8	
TOTALS	8.0	3.3	14.7	5.4	31.4	

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A breakdown of the drafting hours and purchased services of

Item 2 above follows:

a. Checking of piece part and assembly drawings which have already been made.

Qty.	Size
219	A
127	B
143	C
25	D
<u>2</u>	R (3' x 5' approx.)
416	at 2 hours each = <u>832</u> man hrs.

b. Final assemblies still to be drawn (for which customer is to furnish vellum drawing forms.):

Qty.	Size
17	B at 6 hrs. each = 102 man hrs.
18	C at 10 hrs. each = 180 man hrs.
16	D at 16 hrs. each = 256 man hrs.
<u>4</u>	R at 60 hrs. each = <u>240</u> man hrs.
55	Total <u>778</u> man hrs.

c. Checking of final assemblies still to be drawn of b. above.

55 total at 4 hours each = 220 man hrs.

d. Renumbering and relettering of labels and parts lists onto brown line vellum, including cross-indexing of number systems. This applies to a. above or 416 total drawings.

416 dwgs. @ 1½ hrs. each = 624 man hours

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Total of drafting hours 2,523.3 man hours = 14.7 man months
of 172 hrs./m.m.

f. Brown line processing:

Qty.	Size	Price per drawing	Total
219	A	.48	\$105.12
127	B	.72	91.44
43	C	1.44	61.92
25	D	2.88	72.00
2	R (3' x 5' = 15 sq. ft.)	.48/sq. ft.	<u>14.40</u>
			\$344.88

Other materials and processes involved in
photo reproduction and preparation estimate 155.12
TOTAL PROCESSING \$500.00

D. SCHEDULE

As shown on the attached chart, it is proposed that the finalization and training phase be scheduled over a period of eight months.

Prepared by

Section Manager, Infrared Section

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Approved by

Manager, Engineering Department

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SCHEDULE
MODEL B - PHASE III

MAN MONTHS

4
3
2
1
0

TECHNICAL PUBLICATION

DRAFTING

MECHANICAL ENGINEERING

ELECTRICAL ENGINEERING

2 3 4 5 6 7 8

MONTHS

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